

RAW SEQUENCE LISTING

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Application Serial Number: 10/541,822
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/541,822

DATE: 07/19/2005
TIME: 09:06:42

Input Set : A:\PTO.SR.txt
Output Set: N:\CRF4\07192005\J541822.raw

3 <110> APPLICANT: NATIONAL UNIVERSITY CORPORATION KAGAWA UNIVERSITY
 5 <120> TITLE OF INVENTION: GENE SEQUENCE OF L-RHAMNOSE ISOMERASE HAVING NEW CATALYTIC
 FUNCTION AND
 6 USE THEREOF
 8 <130> FILE REFERENCE: PCT-04-IT01
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/541,822
 C--> 11 <141> CURRENT FILING DATE: 2005-07-11
 13 <150> PRIOR APPLICATION NUMBER: JP2003-005041
 14 <151> PRIOR FILING DATE: 2003-01-10
 16 <150> PRIOR APPLICATION NUMBER: JP2003-096046
 17 <151> PRIOR FILING DATE: 2003-03-31
 19 <150> PRIOR APPLICATION NUMBER: JP2003-299371
 20 <151> PRIOR FILING DATE: 2003-08-22
 22 <160> NUMBER OF SEQ ID NOS: 2
 24 <170> SOFTWARE: PatentIn version 3.1
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 1290
 28 <212> TYPE: DNA
 29 <213> ORGANISM: Pseudomonas stutzerii
 31 <400> SEQUENCE: 1
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 34 gcgctgaagg aagactacga ggcgcctcgcc gcgaaatctcg cccgcgtgg cgtcgacatc 120
 36 gaggccgtca cggccaagggt cgaaaaagttc ttctgcgtcc tccccctcctg gggcgctcgcc 180
 38 acggggcggca cgcgcgttgc gcgcttcccc ggcaccggcg agccgcgcgg catttcgac 240
 40 aagctggacg actgcgccgt catccagcag ctgacacgcg ccacgcggaa tgtctcgctg 300
 42 catattccgt gggacaaggc cgatccgaag gagctgaagg ccaggggcga cgcgcattcc 360
 44 ctcggcttcg acgcgtatcaa ctccaataacc ttctccgtat cgcccgccca ggcgcattcc 420
 46 tacaataacg gctcgctcag ccacacggat gcggcaaacgc ggcgcggcggc ggtcgagcac 480
 48 aatctggaat gcatcgagat cggcaaggcc atcggttcca aggcgctgac ggtctggatc 540
 50 ggtgacggct ccaacttccc cggccagagt aacttcacca gggcttcga acgttatctc 600
 52 tcggcgatgg cggagatcta caagggcctg ccggatgact ggaagctttt ctccgagcac 660
 54 aagatgtacg agccggccctt ctattcgacc gtcgtgcagg actggggcac gaattatctc 720
 56 atcgcccaga cgctcgcccc caaggcccag tgcctcgatc atctcgccca tcacgcgcgg 780
 58 aacaccaata tcgagatgtat cgtcgccccgg ctcatccgt tcggcaagct cggccggcttc 840
 60 catttcaacg attccaaata cggcgacgac gacctcgatg ccggcgccat cgagccctat 900
 62 cgccttcc tcgtctcaa cgagctgggt gatgoggagg cgcgcggcgt caagggttcc 960
 64 cacccggccc acatgtatcgaa ccagtgcac aacgtcaccg acccgatcga gagcgtatc 1020
 66 aacagcgca acgaaatccg tcgcgcctat ggcgcaggccc tccttgtcga ccgcgcggcg 1080
 68 ctttccggctt accaggagga caacgacgccc ctgatggcga cggaaacgtt gaagcgcc 1140
 70 taccgtaccg atgtggagcc gatcctcgcc gaggcccggc gccgcacggg cggccggc 1200
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 77 <210> SEQ ID NO: 2
 78 <211> LENGTH: 430

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79 <212> TYPE: PRT
80 <213> ORGANISM: *Pseudomonas stutzerii*
82 <400> SEQUENCE: 2
84 Met Ala Glu Phe Arg Ile Ala Gln Asp Val Val Ala Arg Glu Asn Asp
85 1 5 10 15
88 Arg Arg Ala Ser Ala Leu Lys Glu Asp Tyr Glu Ala Leu Gly Ala Asn
89 20 25 30
92 Leu Ala Arg Arg Gly Val Asp Ile Glu Ala Val Thr Ala Lys Val Glu
93 35 40 45
96 Lys Phe Phe Val Ala Val Pro Ser Trp Gly Val Gly Thr Gly Gly Thr
97 50 55 60
100 Arg Phe Ala Arg Phe Pro Gly Thr Gly Glu Pro Arg Gly Ile Phe Asp
101 65 70 75 80
104 Lys Leu Asp Asp Cys Ala Val Ile Gln Gln Leu Thr Arg Ala Thr Pro
105 85 90 95
108 Asn Val Ser Leu His Ile Pro Trp Asp Lys Ala Asp Pro Lys Glu Leu
109 100 105 110
112 Lys Ala Arg Gly Asp Ala Leu Gly Leu Gly Phe Asp Ala Met Asn Ser
113 115 120 125
116 Asn Thr Phe Ser Asp Ala Pro Gly Gln Ala His Ser Tyr Lys Tyr Gly
117 130 135 140
120 Ser Leu Ser His Thr Asp Ala Ala Thr Arg Ala Gln Ala Val Glu His
121 145 150 155 160
124 Asn Leu Glu Cys Ile Glu Ile Gly Lys Ala Ile Gly Ser Lys Ala Leu
125 165 170 175
128 Thr Val Trp Ile Gly Asp Gly Ser Asn Phe Pro Gly Gln Ser Asn Phe
129 180 185 190
132 Thr Arg Ala Phe Glu Arg Tyr Leu Ser Ala Met Ala Glu Ile Tyr Lys
133 195 200 205
136 Gly Leu Pro Asp Asp Trp Lys Leu Phe Ser Glu His Lys Met Tyr Glu
137 210 215 220
140 Pro Ala Phe Tyr Ser Thr Val Val Gln Asp Trp Gly Thr Asn Tyr Leu
141 225 230 235 240
144 Ile Ala Gln Thr Leu Gly Pro Lys Ala Gln Cys Leu Val Asp Leu Gly
145 245 250 255
148 His His Ala Pro Asn Thr Asn Ile Glu Met Ile Val Ala Arg Leu Ile
149 260 265 270
152 Gln Phe Gly Lys Leu Gly Gly Phe His Phe Asn Asp Ser Lys Tyr Gly
153 275 280 285
156 Asp Asp Asp Leu Asp Ala Gly Ala Ile Glu Pro Tyr Arg Leu Phe Leu
157 290 295 300
160 Val Phe Asn Glu Leu Val Asp Ala Glu Ala Arg Gly Val Lys Gly Phe
161 305 310 315 320
164 His Pro Ala His Met Ile Asp Gln Ser His Asn Val Thr Asp Pro Ile
165 325 330 335
168 Glu Ser Leu Ile Asn Ser Ala Asn Glu Ile Arg Arg Ala Tyr Ala Gln
169 340 345 350
172 Ala Leu Leu Val Asp Arg Ala Ala Leu Ser Gly Tyr Gln Glu Asp Asn
173 355 360 365

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176 Asp Ala Leu Met Ala Thr Glu Thr Leu Lys Arg Ala Tyr Arg Thr Asp
177 370 375 380
180 Val Glu Pro Ile Leu Ala Glu Ala Arg Arg Arg Thr Gly Gly Ala Val
181 385 390 395 400
184 Asp Pro Val Ala Thr Tyr Arg Ala Ser Gly Tyr Arg Ala Arg Val Ala
185 405 410 415
188 Ala Glu Arg Pro Ala Ser Val Ala Gly Gly Gly Gly Ile Ile
189 420 425 430

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/541,822

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Input Set : A:\PTO.SR.txt
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L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date